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NOTICE OF ALLOWANCE AND FEE(S) DUE

22913

7590

02/09/2009

TSO, EDWARD H

EXAMINER

ART UNIT

PAPER NUMBER

2838

DATE MAILED: 02/09/2009

Workman Nydegger 1000 Eagle Gate Tower 60 East South Temple Salt Lake City, UT 84111

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567.799	02/09/2006	Yusai Murakami	16169.25.5	3058

TITLE OF INVENTION: SECONDARY BATTERY VOLTAGE CORRECTING METHOD AND UNIT AND BATTERY RESIDUAL CAPACITY ESTIMATING METHOD AND UNIT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/11/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including debelow or directed off ations.	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification a) specifying a new c	of n orres	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspo arate "FE	ndence address as E ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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Workman Nyd 1000 Eagle Gate 60 East South T		I her State addr trans	eby certify that thes Postal Service wessed to the Mail mitted to the USP	in Fee(st) is Fee(st) ith suf Stop TO (57	of Mailing or Trans Transmittal is being ficient postage for first SSUE FEE address 273-2885, on the d	mission g deposite st class m above, c ate indica	ed with the United ail in an envelope or being facsimile ated below.		
Salt Lake City,	UT 84111								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	PPLICATION NO. FILING DATE		FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.		CONFIRMATION NO.	
10/567,799	02/09/2006	•	Yusai Murakami				16169.25.5		3058
TITLE OF INVENTIO ESTIMATING METHO		TERY VOLTAGE CO	RRECTING METHO	D A	ND UNIT AND	BATTI	ERY RESIDUAL CA	APACITY	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	05/11/2009	05/11/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	3					
TSO, ED	WARD H	2838	320-132000						
1. Change of correspond CFR 1.363). Change of corresp Address form PTO/S. "Fee Address" ind PTO/SB/47; Rev 03-Number is required.	registered attorney or agent) and the names of up to								
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON ' ified below, no assignee bletion of this form is NO categories (will not be pre-	data will appear on t T a substitute for filing (B) RESIDENCE: (C	he pa g an a	ntent. If an assignassignment.	COUNT			
4a. The following fee(s) Issue Fee Publication Fee (N	o. Payment of Fee(s): (A check is enclose Payment by credit	(Pleased.	d. Form PTO-2038	is atta		ficiency.	or credit any		
5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).									
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	nan tl	ne applicant; a regi	stered a	nttorney or agent; or th	ne assigne	e or other party in
Authorized Signature			Date						
Typed or printed name Registration No This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to produce the content of									
an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu/irginia 22313-1450. DC 313-1450.	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR persons are required to re	1.14. This collection is depending upon the second control of the control of the complete com	is est indiv Office IS TC	imated to take 12 r idual case. Any co r, U.S. Patent and OTHIS ADDRESS	ninutes mment Traden S. SENI	to complete, including to the amount of the total to the series of the total to the	ig gatheri me you re artment o for Paten	ng, preparing, and equire to complete f Commerce, P.O. ts, P.O. Box 1450,



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10/567,799	7,799 02/09/2006		Yusai Murakami	16169.25.5	3058	
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1000 Eagle Gate	Tower			ART UNIT	PAPER NUMBER	
60 East South Temple Salt Lake City, UT 84111				2838		
San Lake City,	UI 84 11	1		DATE MAILED: 02/09/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 506 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 506 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/567,799	MUDAKAMIETAI				
Notice of Allowability	Examiner	MURAKAMI ET AL. Art Unit				
	Edward Tax	2020				
	Edward Tso	2838				
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate communicements. This application is suited.	his application. If not included ication will be mailed in due course. THIS				
1. This communication is responsive to <u>11/21/2008</u> .						
2. The allowed claim(s) is/are <u>1-18</u> .						
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	e been received. e been received in Application	No				
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. \square CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.					
(a) 🔲 including changes required by the Notice of Draftspers	son's Patent Drawing Review ((PTO-948) attached				
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in	n the Office action of				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t						
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT						
Attachment(s)						
1. Notice of References Cited (PTO-892)		rmal Patent Application				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		6. ☐ Interview Summary (PTO-413), Paper No./Mail Date				
3. ☐ Information Disclosure Statements (PTO/SB/08), 7. ☐ Examiner's Amendment/Comment						
4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. ☒ Examiner's Statement of Reasons for Allo						
of Biological Material	9.					
/Edward Tso/						
Primary Examiner Art Unit: 2838						

Application/Control Number: 10/567,799 Page 2

Art Unit: 2838

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The prior art

made of record fails to disclose or suggest a method and an apparatus for correcting

and estimating a state of charge having, among other allowable features, calculating

representative voltages from battery voltages measured in the respective voltage

measurement systems in an electronic control unit; calculating voltage correction values

on the basis of the calculated representative voltages in the electronic control unit;

correcting the measured voltages of the secondary batteries in the voltage

measurement systems on the basis of the voltage correction values; and controlling a

state of charge of the battery system using the corrected measured voltages.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication should be directed to the Examiner at

the below-listed number.

By:

/Edward H Tso/

EDWARD H TSO

Primary Examiner, AU 2838

571 272 2087